PRODUCT SPECIFICATION



HYB 333-06 Anti Pertussis Toxin

Mouse monoclonal antibody

Article No.	63949 (0.2 mL), 100698 (1.0 mL)			
Product Name	HYB 333-06 Anti Pertu	HYB 333-06 Anti Pertussis Toxin		
Clone	47.1G2A1E10E11			
Subclass	lgG1 / kappa			
Description	Preparation: Protein-A purified Concentration: 1 mg/mL ± 10%, based on A ₂₈₀ . See Certificate of Analysis for details. Solvent: PBS, pH 7.2 – 7.4 Storage: -18 °C or colder			
Antigen	Pertussis toxin (islet-activating protein) is the major protein toxin produced by virulent strains of <i>Bordetella pertussis</i> , the organism that causes whooping cough (1). As revealed by polyacrylamide gel electrophoresis, the purified protein consists of five dissimilar subunits: S1 (MW 28,000), S2 (MW 23,000), S3 (MW 22,000), S4 (MW 11,700) and S5 (MW 9,300), in a molar ratio of 1:1:1:2:1. The A-protomer, S1 is responsible for the enzymatic activity of the toxin. Together, S2, S3, S4 and S5 comprise the B-oligomer, responsible for binding the toxin to the cell surface (2). Pertussis toxin.			
Immunogen	<u>.</u>			
Specificity	HYB 333-06 (3) reacts with pertussis toxin.			
Epitope Specificity	HYB 333-06 has a different epitope specificity compared with HYB 333-01, HYB 333-03, HYB 333-05 and HYB 333-09.			
Reactivity	HYB 333-06 (MAb clone 47.1) (3) is well suited for ELISA based measurement of pertussis toxin. HYB 333-06 can neutralize pertussis toxin when measured by Chinese Hamster Ovary cell assays and Leucocytosis promoting activity (4).			
Culture Medium	Dulbecco's modified Eagle's medium with 10% fetal calf serum.			
Fusion Partner	X63-Ag8.653.			
Immunization	Female CF1xBalb/c F1 hybrid mice were immunized i.p. with immunogen.			
Application	Method	Usability	References	
	ELISA Immunoblotting Immunofluorescence Neutralization	yes yes nd. yes	4 5 4	
References	 Pittman, M. (1979) Rev. Infect. Dis. 1, 401-412. Tamura, M., Nogomori, K., Murai, S., Yajima, M., Ito, K., Katada, T., Ui, M. and Ishi, S. (1982) Biochem. 21, 5516-5522. HYB 333-06 is known from the literature as "471". Ibsen, P.H. (1996). The effect of formaldehyde, hydrogen peroxide and genetic detoxification of pertussis toxin on epitope recognition by murine monoclonal antibodies. Vaccine, 14, 359-368 Petersen JW, Holm A, Ibsen PH, Hasløv K, Capiau C, Heron I. Identification of human T-cell epitopes on the S4 subunit of pertussis toxin. Infect Immun. 1992 Oct;60(10):3962-70. 			
		cedures. Not for therapeutic	use or applications. d our control. The foregoing is in lieu of all warranties,	

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